

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM120916\  
 Data File : BM008217.D  
 Acq On : 09 Dec 2016 22:16  
 Operator : UM/SJ  
 Sample : H5863-17  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 DA7Z7

Quant Time: Dec 10 04:41:04 2016  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM112116.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Dec 10 04:37:00 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.70  | 152  | 582      | 0.40 | ng/ul | -0.03    |
| 2) Naphthalene-d8         | 10.46 | 136  | 1867     | 0.40 | ng/ul | -0.02    |
| 6) Acenaphthene-d10       | 14.33 | 164  | 1115     | 0.40 | ng/ul | 0.00     |
| 10) Phenanthrene-d10      | 17.07 | 188  | 1745     | 0.40 | ng/ul | -0.02    |
| 16) Chrysene-d12          | 21.27 | 240  | 1805     | 0.40 | ng/ul | -0.01    |
| 20) Perylene-d12          | 23.50 | 264  | 1766     | 0.40 | ng/ul | -0.02    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Methylnaphthalene-d10  | 12.06 | 152  | 585      | 0.22 | ng/ul | -0.04    |
| 14) Fluoranthene-d10        | 19.11 | 212  | 2838     | 0.57 | ng/ul | -0.02    |

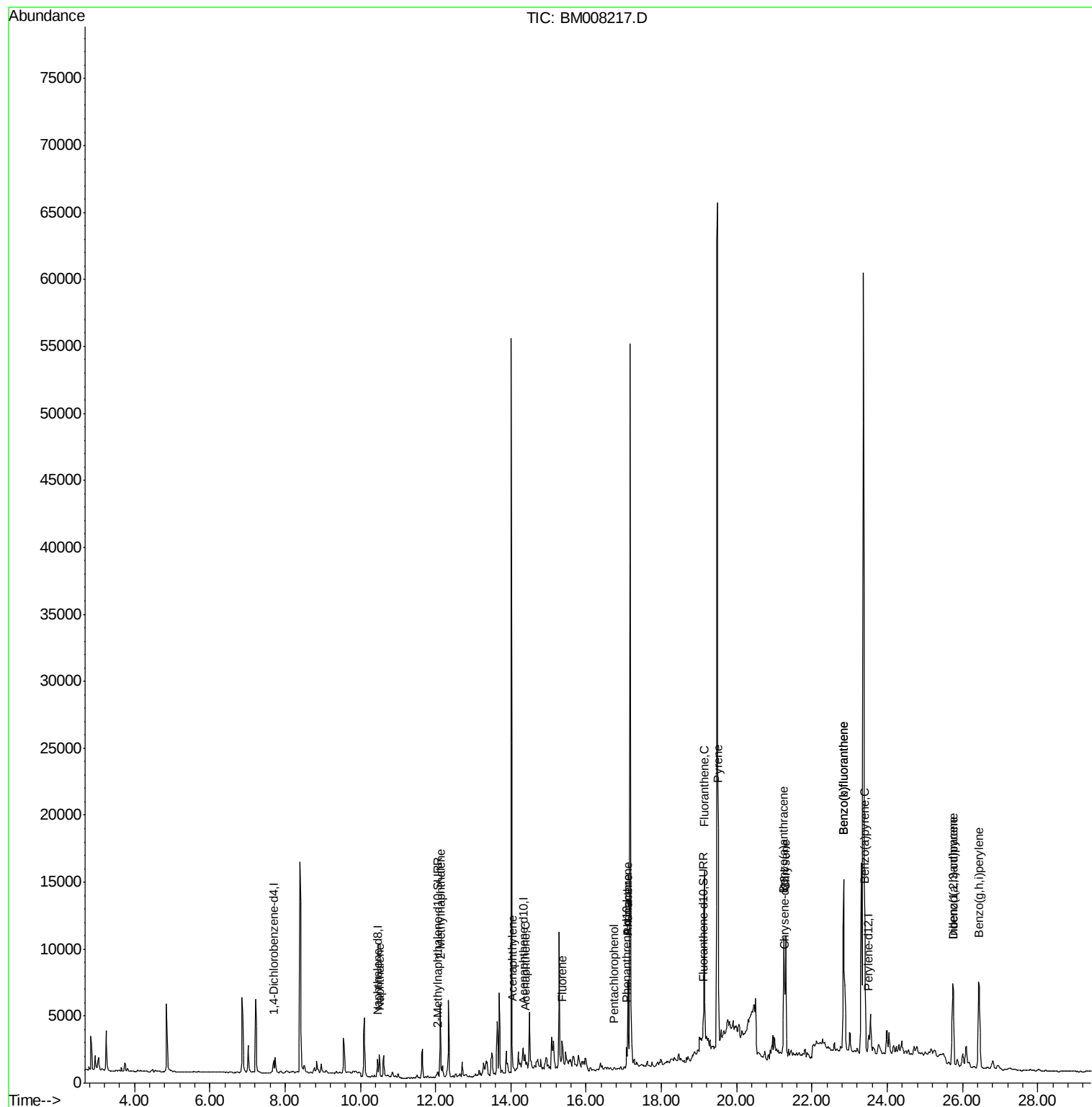
| Target Compounds           | R.T.  | QIon | Response | Conc | Units  | Qvalue |
|----------------------------|-------|------|----------|------|--------|--------|
| 3) Naphthalene             | 10.51 | 128  | 2276     | 0.44 | ng/ul  | 98     |
| 5) 2-Methylnaphthalene     | 12.12 | 142  | 4133     | 1.23 | ng/ul  | 97     |
| 7) Acenaphthylene          | 14.04 | 152  | 1079     | 0.21 | ng/ul# | 67     |
| 8) Acenaphthene            | 14.38 | 153  | 541      | 0.14 | ng/ul# | 91     |
| 9) Fluorene                | 15.38 | 166  | 1425     | 0.32 | ng/ul# | 69     |
| 11) Pentachlorophenol      | 16.75 | 266  | 68       | 0.11 | ng/ul# | 66     |
| 12) Phenanthrene           | 17.11 | 178  | 7843     | 1.44 | ng/ul  | 100    |
| 13) Anthracene             | 17.11 | 178  | 7634     | 1.50 | ng/ul  | 98     |
| 15) Fluoranthene           | 19.14 | 202  | 14294    | 2.04 | ng/ul  | 89     |
| 17) Pyrene                 | 19.51 | 202  | 15793    | 2.52 | ng/ul  | 97     |
| 18) Benzo(a)anthracene     | 21.25 | 228  | 8392     | 1.51 | ng/ul# | 85     |
| 19) Chrysene               | 21.30 | 228  | 11213    | 1.63 | ng/ul# | 88     |
| 21) Benzo(b)fluoranthene   | 22.84 | 252  | 25729    | 3.65 | ng/ul  | 89     |
| 22) Benzo(k)fluoranthene   | 22.84 | 252  | 25729    | 3.54 | ng/ul  | 91     |
| 23) Benzo(a)pyrene         | 23.41 | 252  | 13193    | 2.00 | ng/ul# | 84     |
| 24) Indeno(1,2,3-cd)pyrene | 25.74 | 276  | 9485     | 1.16 | ng/ul# | 92     |
| 25) Dibenzo(a,h)anthracene | 25.74 | 278  | 3732     | 0.57 | ng/ul# | 77     |
| 26) Benzo(g,h,i)perylene   | 26.43 | 276  | 14423    | 1.99 | ng/ul# | 92     |

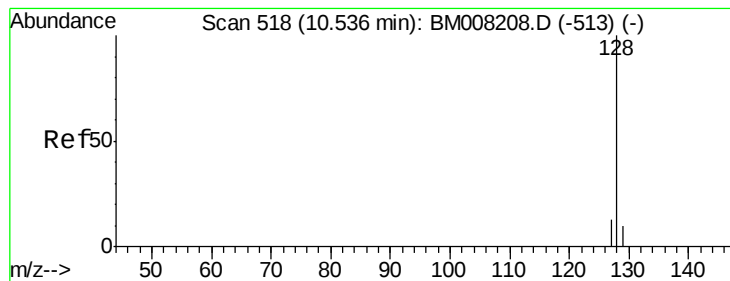
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM120916\  
Data File : BM008217.D  
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Misc :  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
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DA7Z7

Quant Time: Dec 10 04:41:04 2016  
Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM112116.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sat Dec 10 04:37:00 2016  
Response via : Initial Calibration





#3

Naphthalene

Concen: 0.44 ng/ul

RT: 10.51 min Scan# 516

Delta R.T. -0.02 min

Lab File: BM008217.D

Acq: 09 Dec 2016 22:16

Instrument :

BNA\_M

ClientSampleId :

DA7Z7

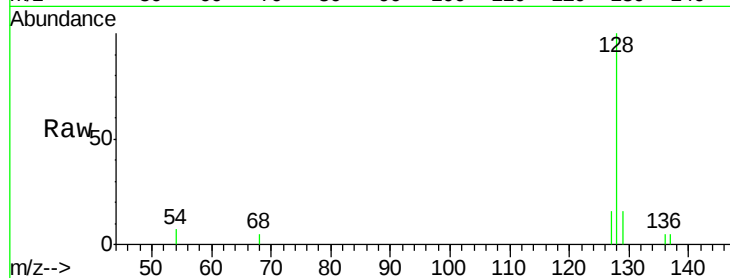
Tgt Ion:128 Resp: 2276

Ion Ratio Lower Upper

128 100

129 15.6 11.3 16.9

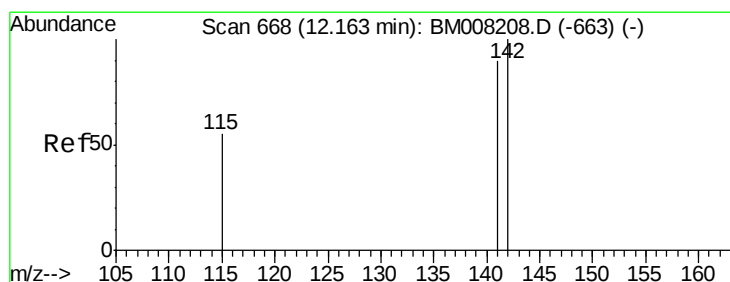
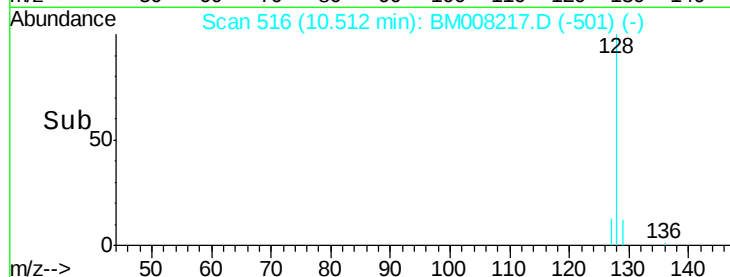
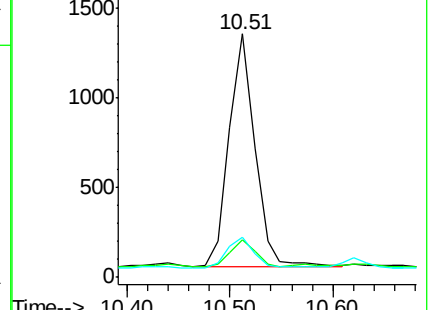
127 16.4 12.8 19.2



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#5

2-Methylnaphthalene

Concen: 1.23 ng/ul

RT: 12.12 min Scan# 664

Delta R.T. -0.04 min

Lab File: BM008217.D

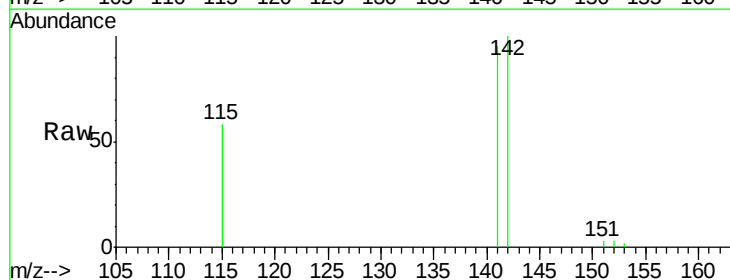
Acq: 09 Dec 2016 22:16

Tgt Ion:142 Resp: 4133

Ion Ratio Lower Upper

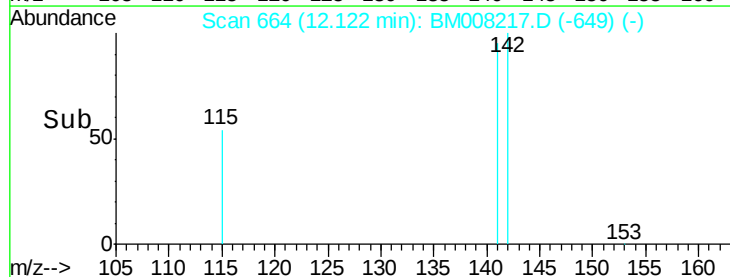
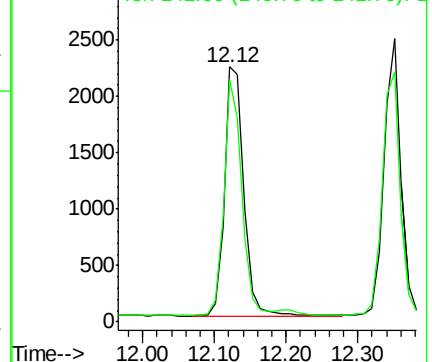
142 100

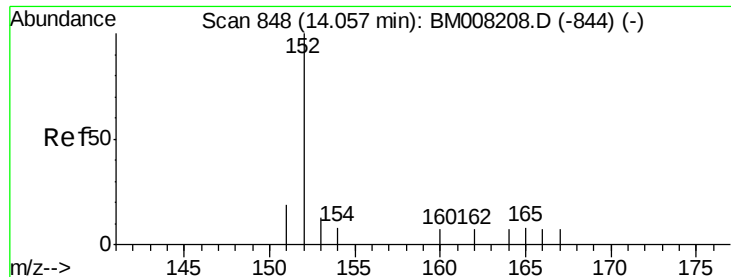
141 88.0 72.6 108.8



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#7

Acenaphthylene

Concen: 0.21 ng/ul

RT: 14.04 min Scan# 847

Delta R.T. -0.02 min

Lab File: BM008217.D

Acq: 09 Dec 2016 22:16

Instrument :

BNA\_M

ClientSampleId :

DA7Z7

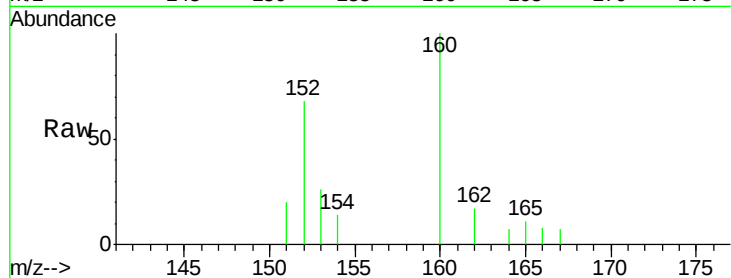
Tgt Ion:152 Resp: 1079

Ion Ratio Lower Upper

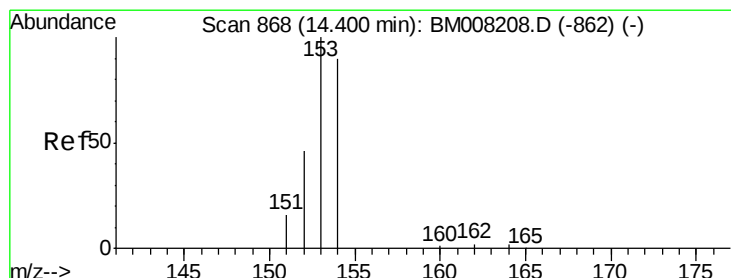
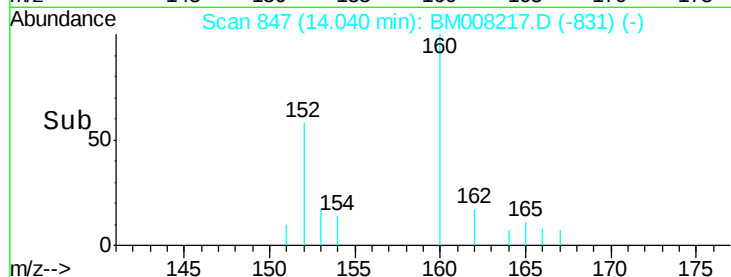
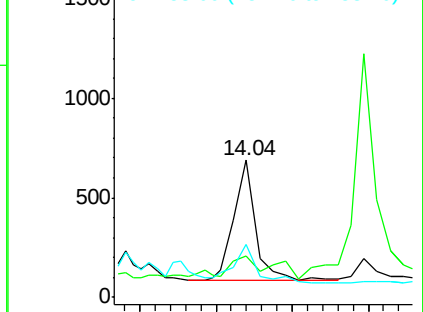
152 100

151 29.8 17.1 25.7#

153 38.3 12.8 19.2#



Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 151.00 (150.70 to 151.70): E  
Ion 153.00 (152.70 to 153.70): E



#8

Acenaphthene

Concen: 0.14 ng/ul

RT: 14.38 min Scan# 867

Delta R.T. -0.02 min

Lab File: BM008217.D

Acq: 09 Dec 2016 22:16

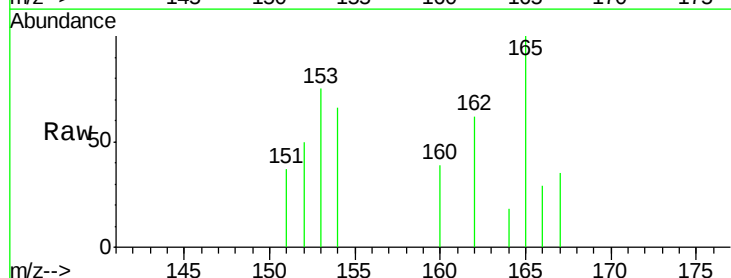
Tgt Ion:153 Resp: 541

Ion Ratio Lower Upper

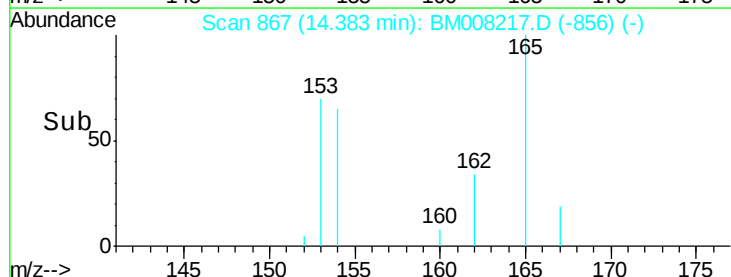
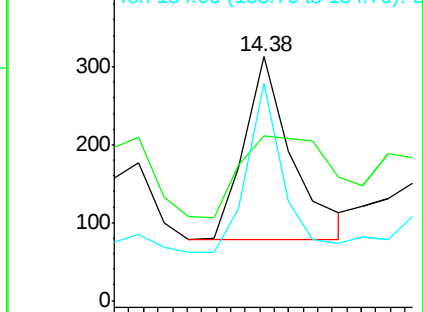
153 100

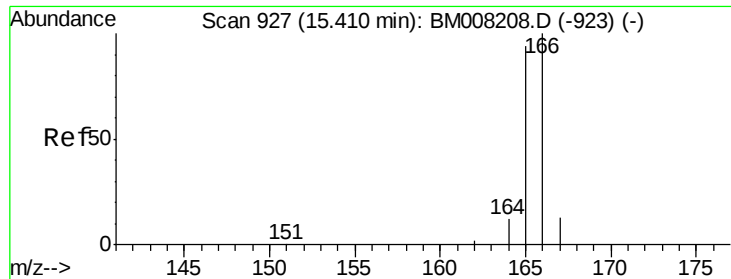
152 67.4 40.3 60.5#

154 89.1 71.4 107.2



Abundance Ion 153.00 (152.70 to 153.70): E  
Ion 152.00 (151.70 to 152.70): E  
Ion 154.00 (153.70 to 154.70): E





#9

Fluorene

Concen: 0.32 ng/ul

RT: 15.38 min Scan# 925

Delta R.T. -0.03 min

Lab File: BM008217.D

Acq: 09 Dec 2016 22:16

Instrument :

BNA\_M

ClientSampleId :

DA7Z7

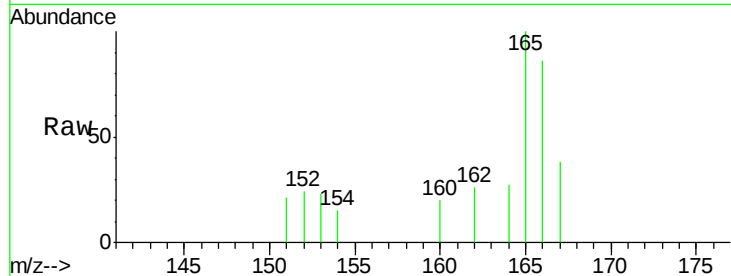
Tgt Ion:166 Resp: 1425

Ion Ratio Lower Upper

166 100

165 116.5 73.4 110.2#

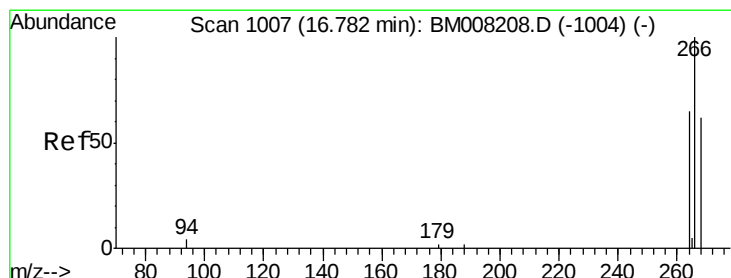
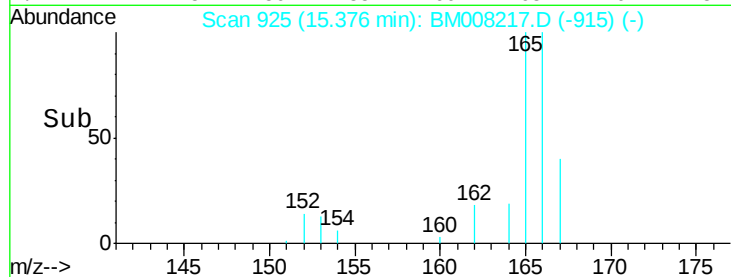
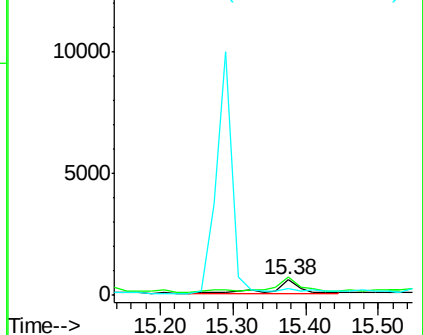
167 44.4 14.6 22.0#



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#11

Pentachlorophenol

Concen: 0.11 ng/ul

RT: 16.75 min Scan# 1005

Delta R.T. -0.03 min

Lab File: BM008217.D

Acq: 09 Dec 2016 22:16

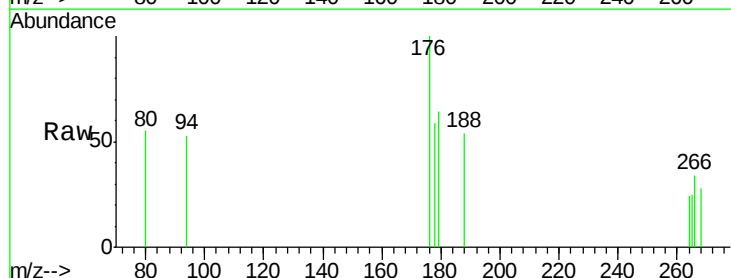
Tgt Ion:266 Resp: 68

Ion Ratio Lower Upper

266 100

264 29.4 47.9 71.9#

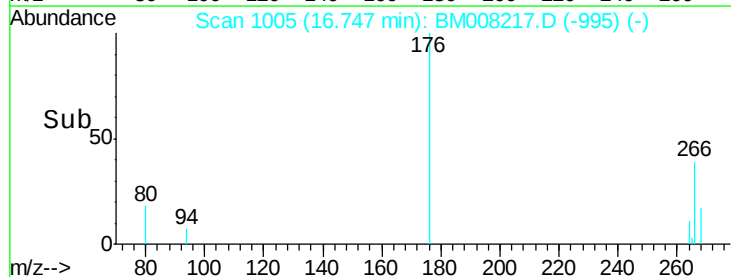
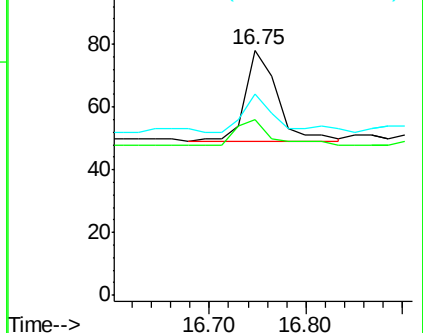
268 41.2 49.8 74.8#

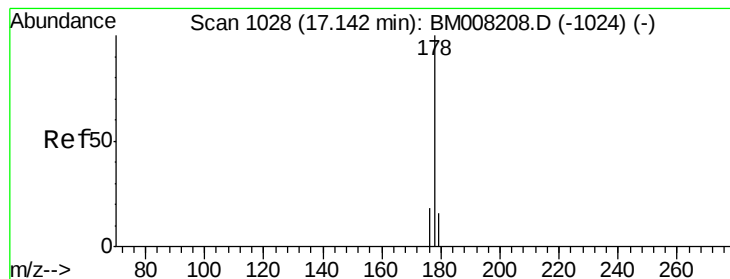


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#12

Phenanthrene

Concen: 1.44 ng/ul

RT: 17.11 min Scan# 1026

Delta R.T. -0.03 min

Lab File: BM008217.D

Acq: 09 Dec 2016 22:16

Instrument :

BNA\_M

ClientSampleId :

DA7Z7

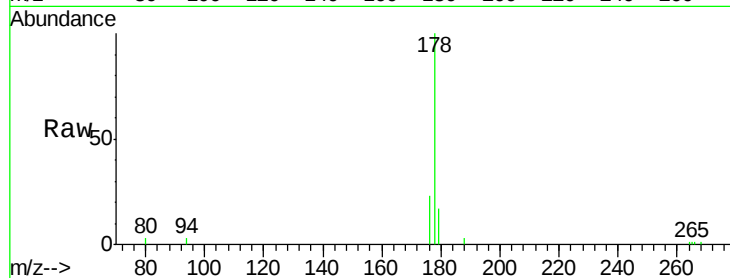
Tgt Ion:178 Resp: 7843

Ion Ratio Lower Upper

178 100

176 23.1 18.4 27.6

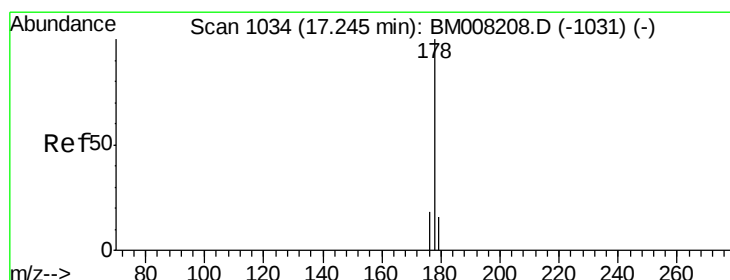
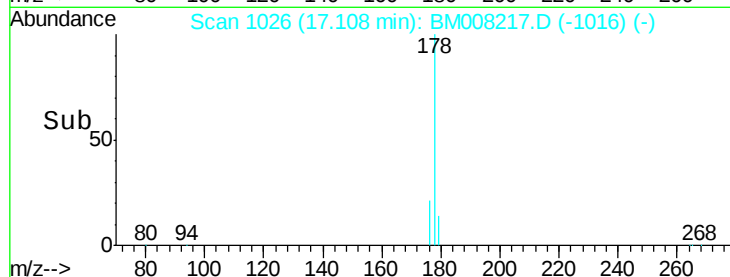
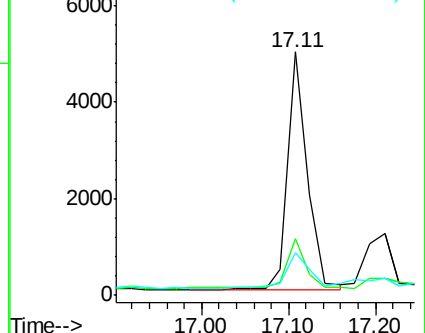
179 17.3 13.6 20.4



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#13

Anthracene

Concen: 1.50 ng/ul

RT: 17.11 min Scan# 1026

Delta R.T. -0.14 min

Lab File: BM008217.D

Acq: 09 Dec 2016 22:16

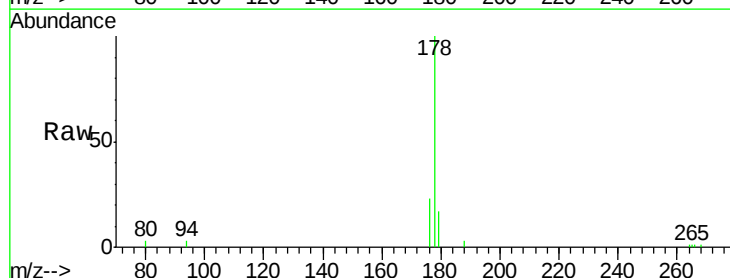
Tgt Ion:178 Resp: 7634

Ion Ratio Lower Upper

178 100

176 23.1 18.1 27.1

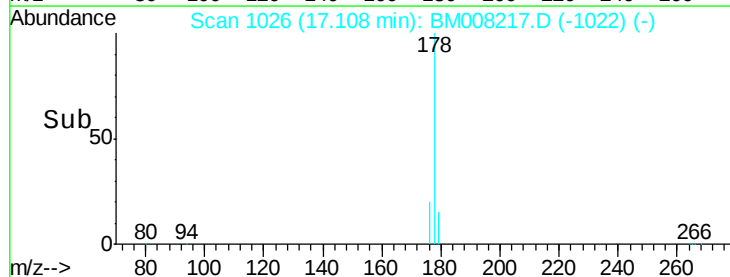
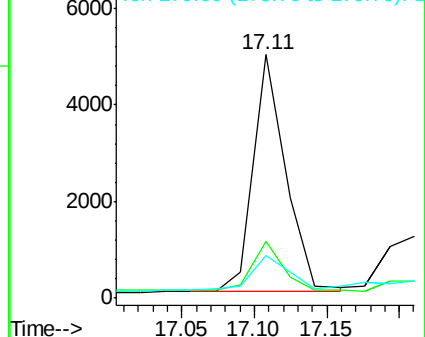
179 17.3 14.7 22.1

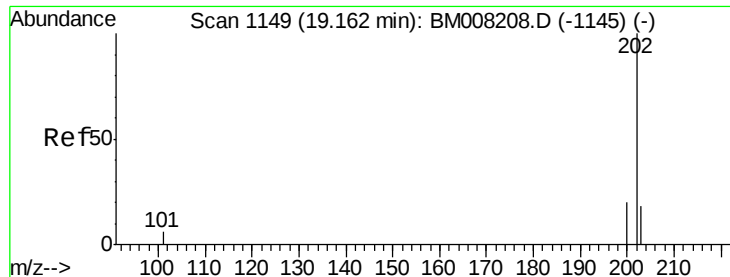


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#15

Fluoranthene

Concen: 2.04 ng/ul

RT: 19.14 min Scan# 1148

Delta R.T. -0.02 min

Lab File: BM008217.D

Acq: 09 Dec 2016 22:16

Instrument :

BNA\_M

ClientSampleId :

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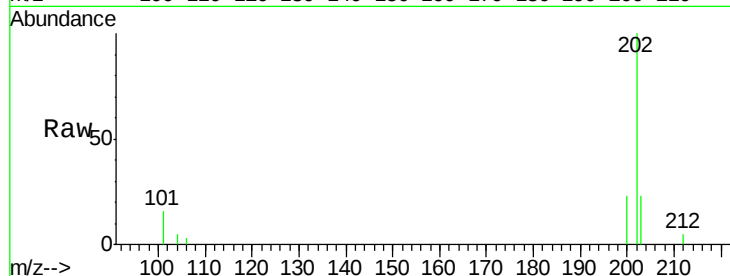
Tgt Ion:202 Resp: 14294

Ion Ratio Lower Upper

202 100

101 16.2 0.0 30.3

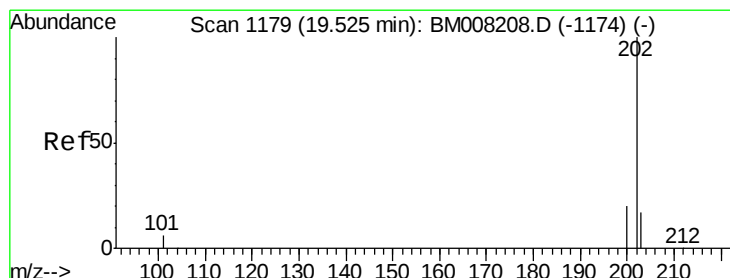
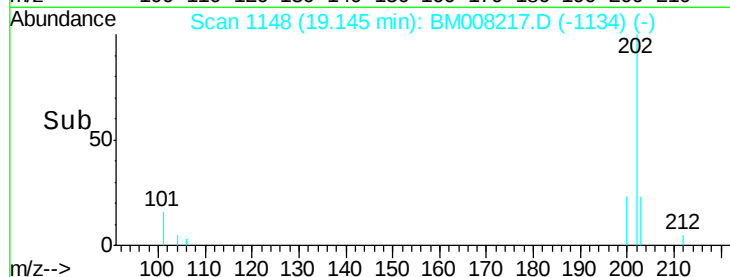
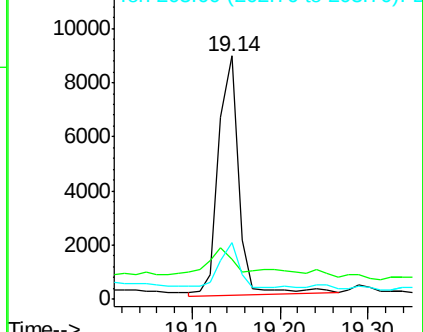
203 23.3 0.0 39.5



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#17

Pyrene

Concen: 2.52 ng/ul

RT: 19.51 min Scan# 1178

Delta R.T. -0.02 min

Lab File: BM008217.D

Acq: 09 Dec 2016 22:16

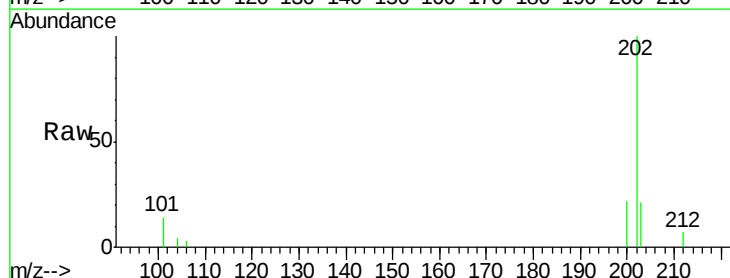
Tgt Ion:202 Resp: 15793

Ion Ratio Lower Upper

202 100

200 22.1 18.2 27.4

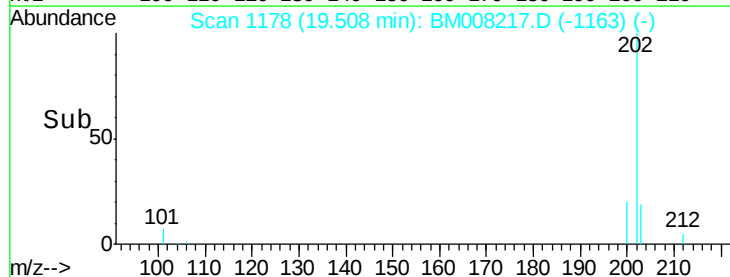
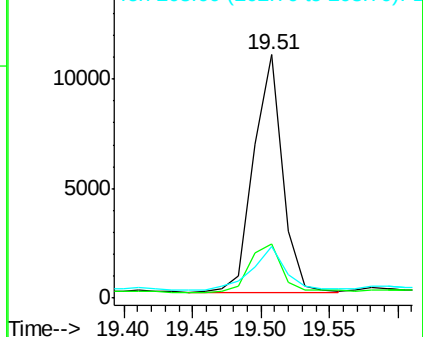
203 21.3 15.6 23.4

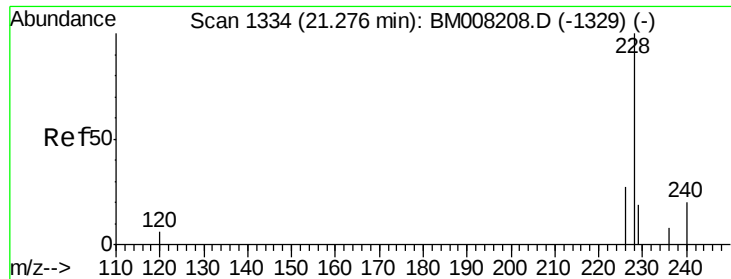


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#18

Benzo(a)anthracene

Concen: 1.51 ng/ul

RT: 21.25 min Scan# 1332

Delta R.T. -0.02 min

Lab File: BM008217.D

Acq: 09 Dec 2016 22:16

Instrument :

BNA\_M

ClientSampleId :

DA7Z7

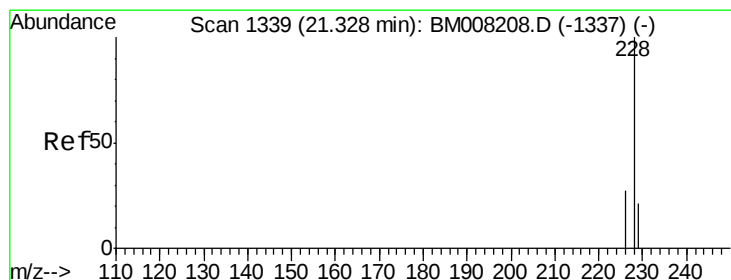
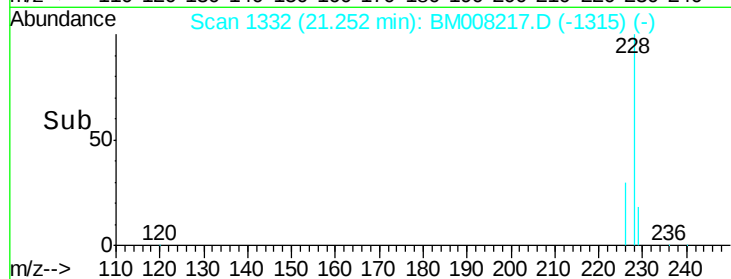
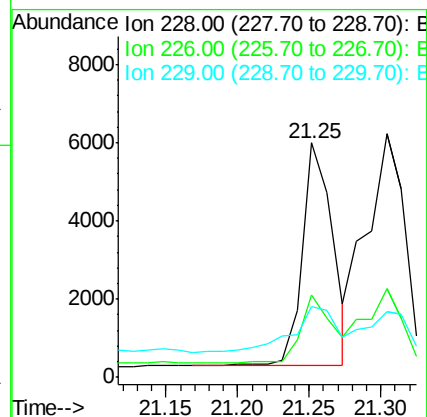
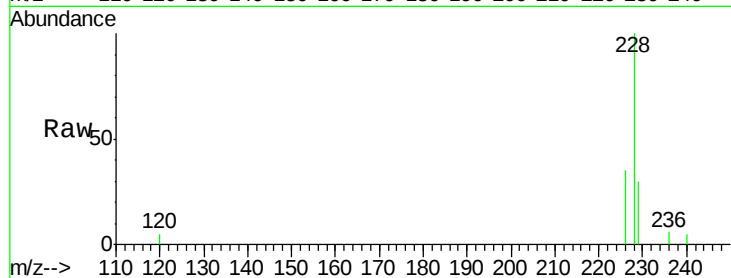
Tgt Ion:228 Resp: 8392

Ion Ratio Lower Upper

228 100

226 35.3 22.8 34.2#

229 30.2 17.0 25.6#



#19

Chrysene

Concen: 1.63 ng/ul

RT: 21.30 min Scan# 1337

Delta R.T. -0.02 min

Lab File: BM008217.D

Acq: 09 Dec 2016 22:16

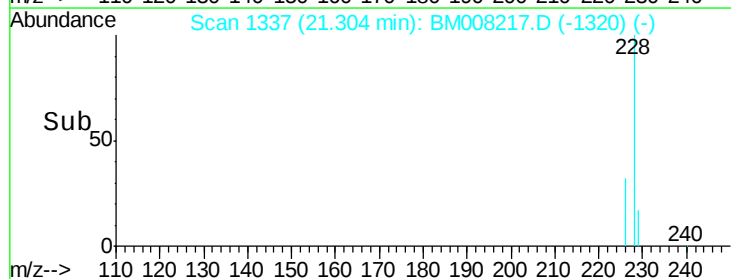
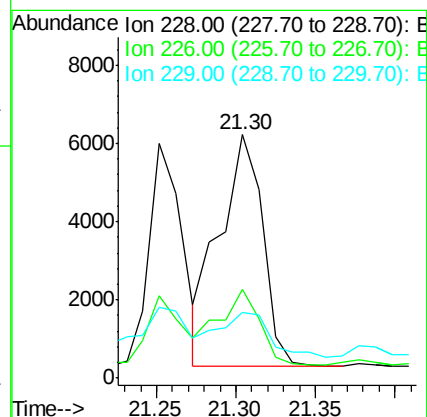
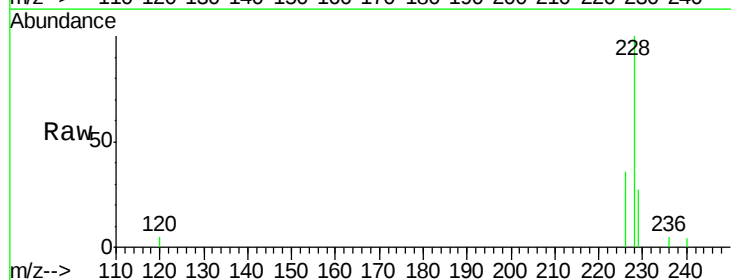
Tgt Ion:228 Resp: 11213

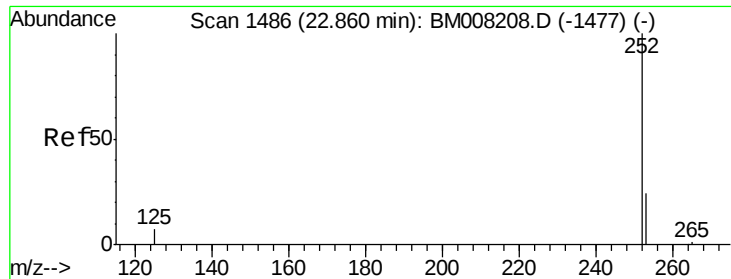
Ion Ratio Lower Upper

228 100

226 36.2 23.4 35.0#

229 26.8 17.7 26.5#





#21

Benzo(b)fluoranthene

Concen: 3.65 ng/ul

RT: 22.84 min Scan# 1484

Delta R.T. -0.02 min

Lab File: BM008217.D

Acq: 09 Dec 2016 22:16

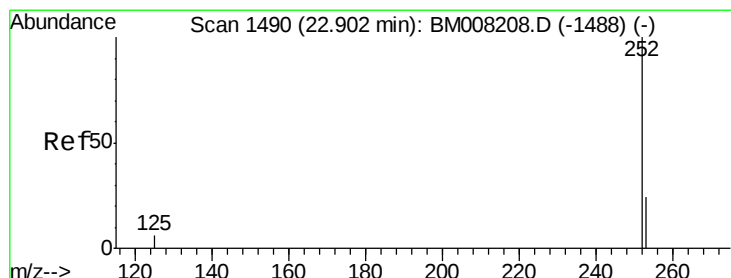
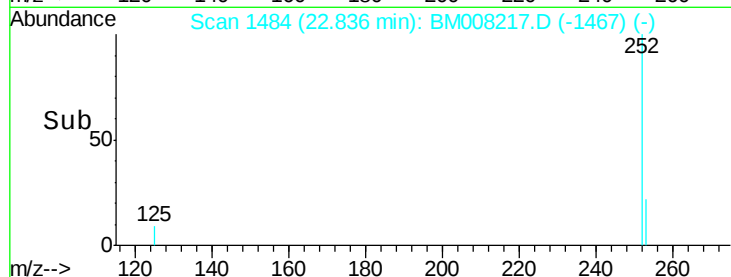
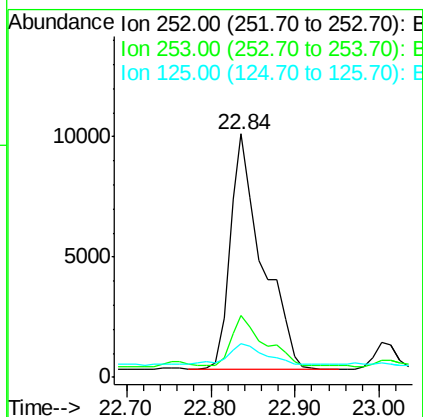
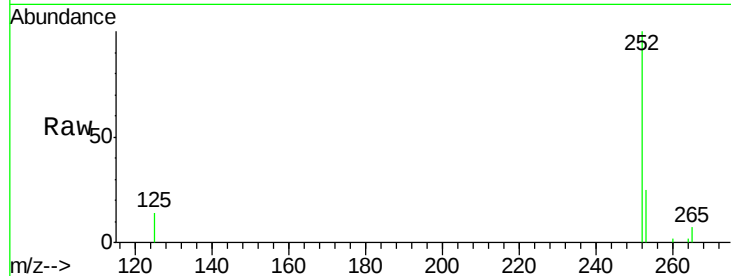
Instrument :

BNA\_M

ClientSampleId :

DA7Z7

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 252   | Resp: | 25729 |
| Ion      | Ratio | Lower | Upper |
| 252      | 100   |       |       |
| 253      | 25.4  | 0.0   | 64.2  |
| 125      | 13.9  | 0.0   | 35.0  |



#22

Benzo(k)fluoranthene

Concen: 3.54 ng/ul

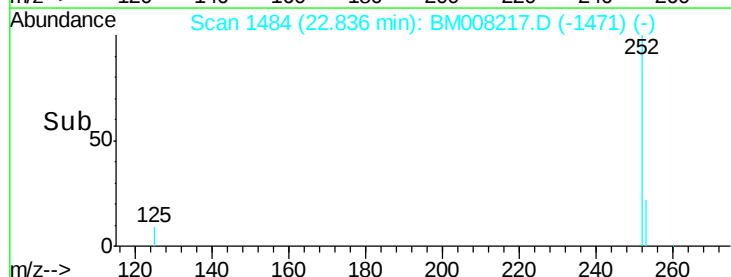
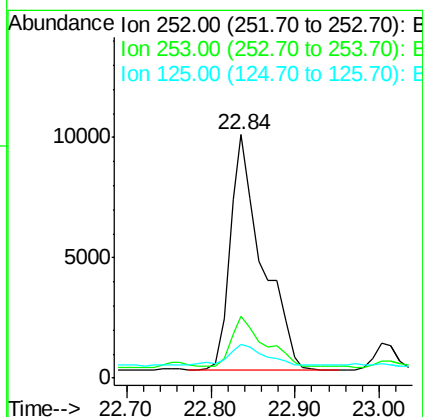
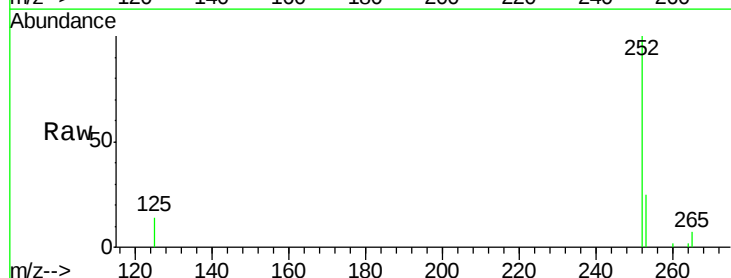
RT: 22.84 min Scan# 1484

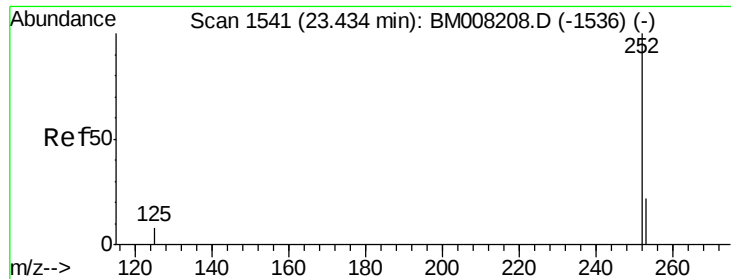
Delta R.T. -0.07 min

Lab File: BM008217.D

Acq: 09 Dec 2016 22:16

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 252   | Resp: | 25729 |
| Ion      | Ratio | Lower | Upper |
| 252      | 100   |       |       |
| 253      | 25.4  | 24.5  | 36.7  |
| 125      | 13.9  | 13.7  | 20.5  |





#23

Benzo(a)pyrene

Concen: 2.00 ng/ul

RT: 23.41 min Scan# 1539

Delta R.T. -0.02 min

Lab File: BM008217.D

Acq: 09 Dec 2016 22:16

Instrument :

BNA\_M

ClientSampleId :

DA7Z7

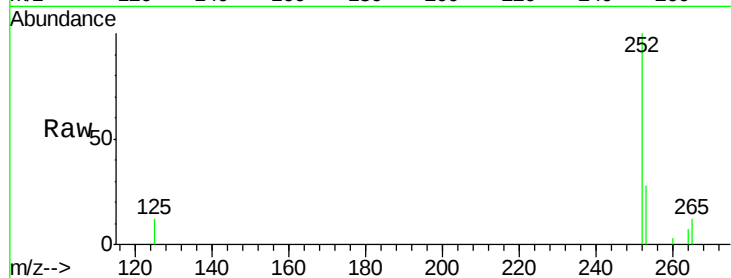
Tgt Ion: 252 Resp: 13193

Ion Ratio Lower Upper

252 100

253 28.2 28.5 42.7#

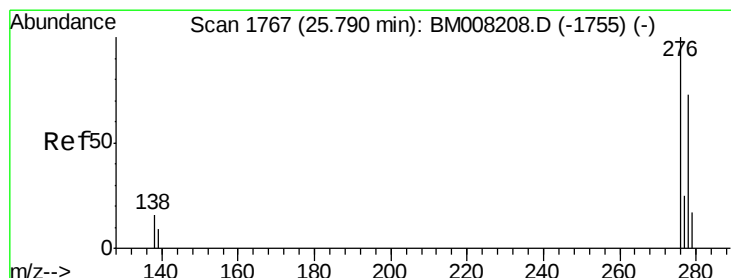
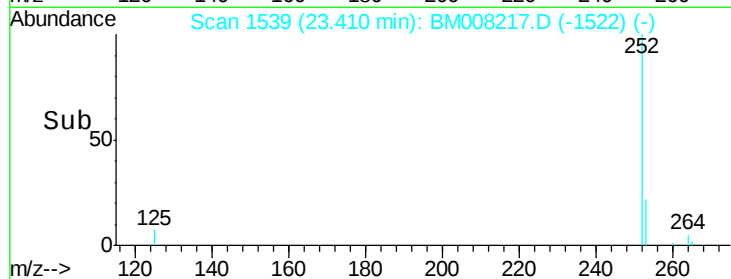
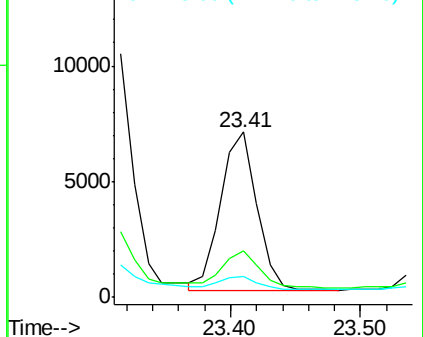
125 12.3 18.1 27.1#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#24

Indeno(1,2,3-cd)pyrene

Concen: 1.16 ng/ul

RT: 25.74 min Scan# 1763

Delta R.T. -0.05 min

Lab File: BM008217.D

Acq: 09 Dec 2016 22:16

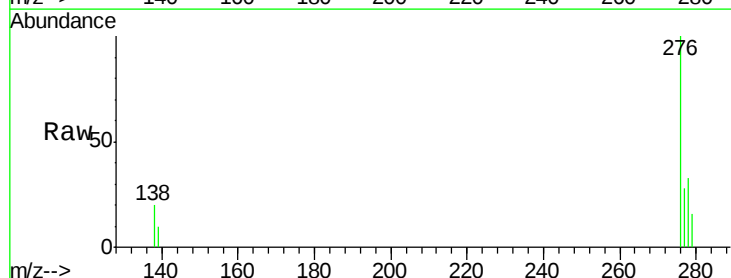
Tgt Ion: 276 Resp: 9485

Ion Ratio Lower Upper

276 100

138 16.0 19.1 28.7#

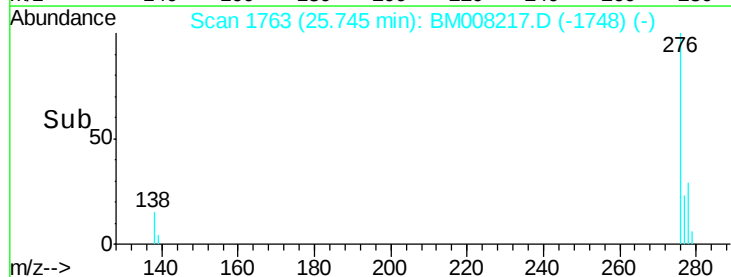
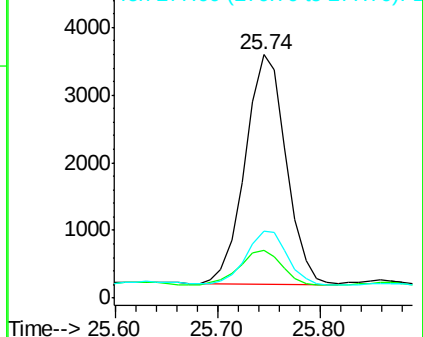
277 24.2 19.6 29.4

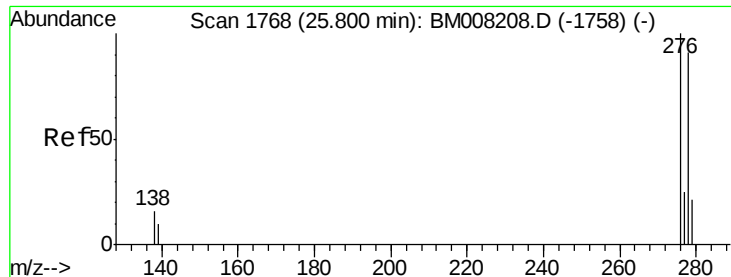


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#25

Dibenzo(a,h)anthracene

Concen: 0.57 ng/ul

RT: 25.74 min Scan# 1763

Delta R.T. -0.06 min

Lab File: BM008217.D

Acq: 09 Dec 2016 22:16

Instrument :

BNA\_M

ClientSampleId :

DA7Z7

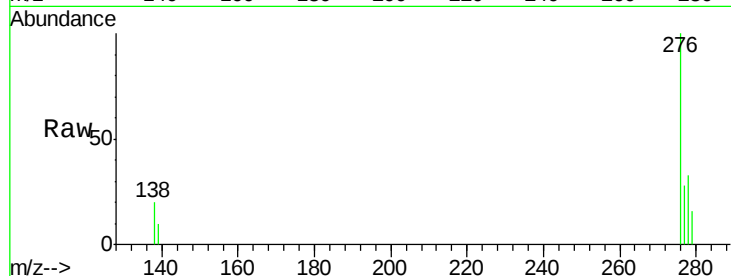
Tgt Ion:278 Resp: 3732

Ion Ratio Lower Upper

278 100

139 30.4 17.4 26.0#

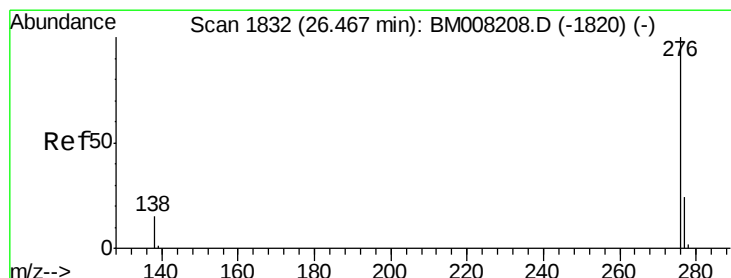
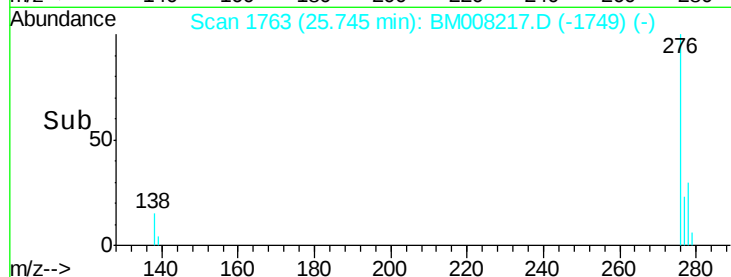
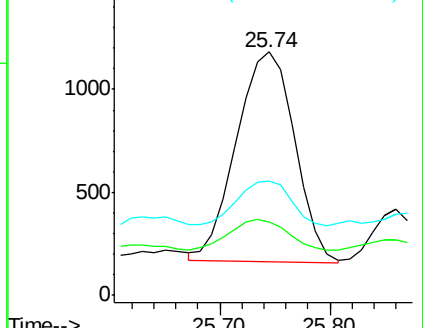
279 47.2 25.9 38.9#



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#26

Benzo(g,h,i)perylene

Concen: 1.99 ng/ul

RT: 26.43 min Scan# 1829

Delta R.T. -0.03 min

Lab File: BM008217.D

Acq: 09 Dec 2016 22:16

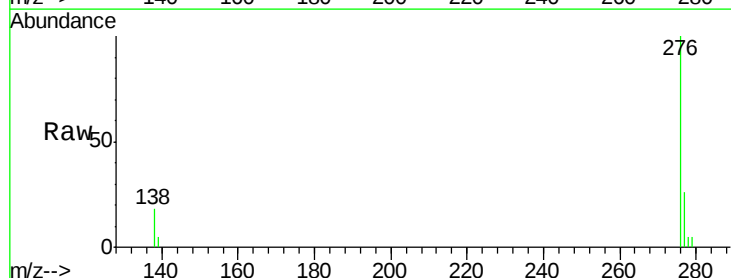
Tgt Ion:276 Resp: 14423

Ion Ratio Lower Upper

276 100

277 26.2 21.8 32.8

138 18.5 20.5 30.7#



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

